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and resembles examples of the same species in the grouping of the eyes; but in all other respects it is so widely divided from the typical *Epeira*, that it becomes necessary to separate it from the genus; and, as he knew of no other to which it can be relegated without equal objections, he had deemed it necessary to establish for it this new genus.

DREXELIA DIRECTA Hentz.

1847 *Epeira directa*, Hentz. Jour. B. S., Nat. Sci., V, Pl. 31, fig. 21; and U. S. p. 119, Pl. 13, fig. 21.

1847 *Epeira rubella* Hentz Ibid, fig. 22; Ibid, p. 120, fig. 22.

1889 *Epeira tetragathoides* Cambridge. Biolog. Cent. Am., Aran. p. 16, Pl. viii. figs. 9, 10.

1890 *Epeira deludens* Marx, *in litt.*, Catalg. p. 544. (Keyserling Die Spinn. Am. IV, Epeir.)

1890 *Singa rubella* (Hz.) Marx. Ibid, p. 547.

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FEBRUARY 9.

The President, General ISAAC J. WISTAR, in the chair.

Forty-six persons present.

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FEBRUARY 16.

The President, General ISAAC J. WISTAR, in the chair.

Thirty persons present.

Papers under the following titles were presented for publication:—

A new Pycnogonum from the West Coast of the United States.

By J. E. Ives.

Birds collected by the West Greenland Expedition of 1891.

By Witmer Stone.

*Anatomy of West Indian Helices.*—MR. H. A. PILSBRY stated that the genital system in the Helices belonging to the genus *Caracolus* is characterized by its simplicity, resembling the North American genus *Polygyra* in this respect. It differs from this last in several points, notably in the presence of a flagellum upon the penis; or, to speak more exactly, upon that slender continuation of the penis which gives rise to both the flagellum and the *vas deferens*. In *Caracolus rostratus* (Pl. VI, figs. C, D) the flagellum (fl.) is very short; the duct of the spermatheca being likewise short. The jaw (Pl. VI, fig. E) is stout, its central portion arching forward like a beak, with the suggestion of a median prominence to the cutting edge. It is completely devoid of ribs, although some other forms of *Ciracolus* which are scarcely distinguishable specifically from this

one, are strongly odontognathous, another proof that this character is worthless for dividing genera or sections among the Helices.

*Caracolus (Lucerna) acutus* (Pl. VI, fig. A.) has a short flagellum, but much longer than that of *C. rostratus*. The duct of the spermatheca is long. The jaw (Pl. VI, fig. B) has strong, unequal ribs.

*Hemitrochus (Plagioptycha) salvatoris* has the same type of jaw which Binney has described and figured for *H. varians* the typical species of *Hemitrochus*. In the present species, which belongs to the section *Plagioptycha*, the jaw (Pl. VI, fig. G) is highly arched, has a feeble median projection, and a group of faint vertical striæ in the middle. The genital system (Pl. VI, fig. F) is complicated by the presence of a large dart sac, several unequal accessory glands, (*a. gl.*) corresponding to the "digitate glands" of the restricted genus *Helix* (*H. pomatia*, etc.). The penis (*p.*) is slender and twisted. It bears a long flagellum of the "whip-lash" type. I found no retractor muscle attached to the penis, but I suppose that there is one.

I have not commented on or figured the teeth of these forms, as Binney has already investigated those of numerous allied species.

These few species serve to show the marked difference existing between the genital systems of the two main genera of West Indian Helices:—*Caracolus* and *Hemitrochus*.

#### Explanation of Plate VI.

- A. Genitalia of *Caracolus (Lucerna) acutus* Lam. drawn from a specimen collected by Wm. Fox, in Jamaica (Mus. No. of shell, 61,632.)
- B. Jaw of the same.
- C. Genitalia of *Caracolus rostratus* Pfr., (Cuba), obtained from a bunch of bananas.
- D. Same specimen, from the opposite side.
- E. Jaw of the same specimen.
- F. Genitalia of *Hemitrochus (Plagioptycha) salvatoris* Pfr. Drawn from a specimen furnished by Wm. H. Dall. (Mus. No. of shell, 62,941). Watlings Id., Bahamas.
- G. Jaw of the same individual.
- (P. penis, *fl.* flagellum, *p. r.*, retractor penis, *r. s.* spermatheca, *a. gl.* accessory glands.

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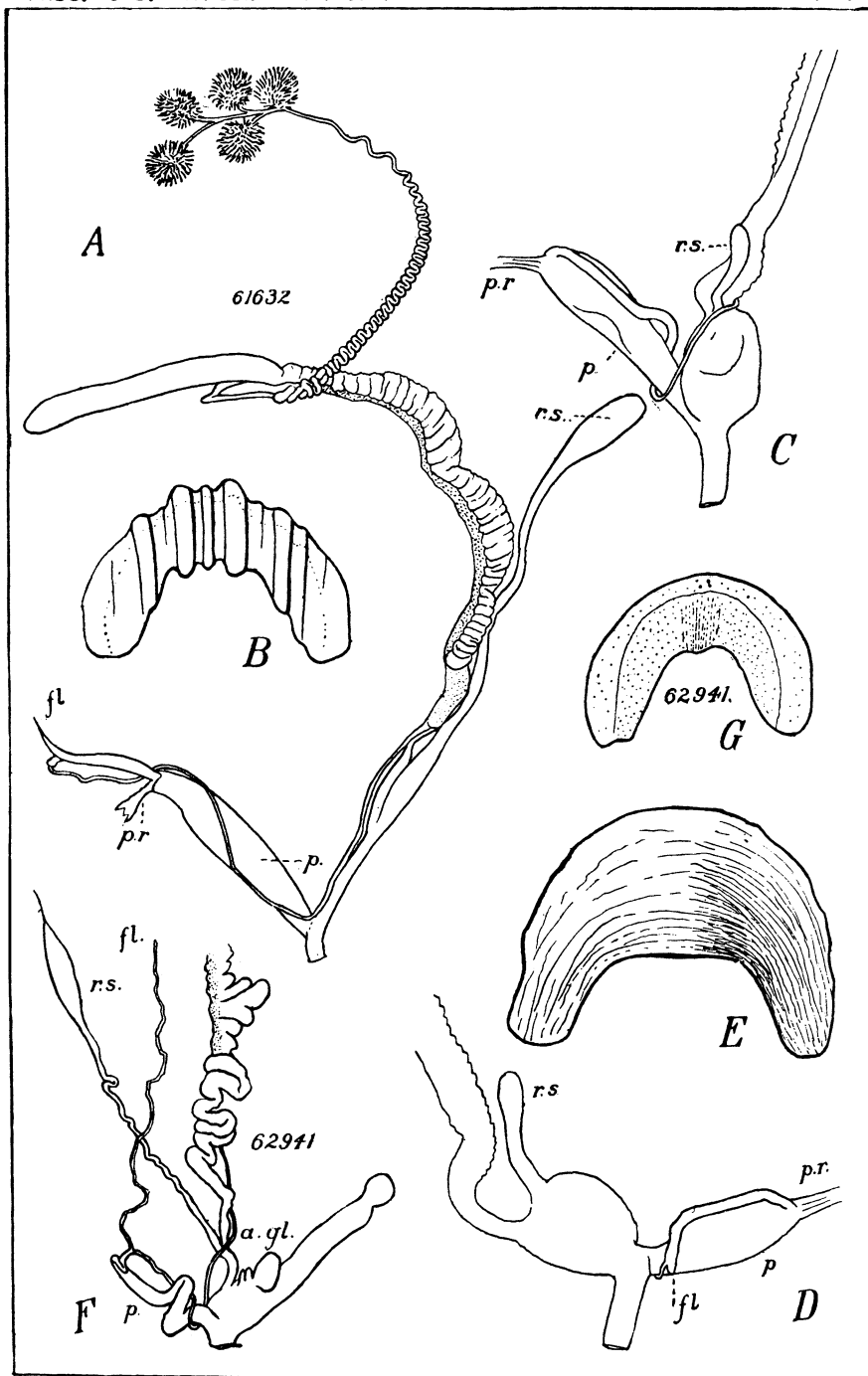
FEBRUARY 23.

The President, General ISAAC J. WISTAR, in the chair.

Thirty-two persons present.

The death of Henry Walter Bates, a correspondent, February 17, was announced.

The following were elected members:—



Pilsbry, del.

PILSBRY, ANATOMY OF CARACOLUS AND HEMITROCHUS.